

COPY OF PAPERS **ORIGINALLY FILED**

Jup 1619

PATENT Attorney Docket No. P04854US1

Group Art Unit: 1619

Examiner:

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: **SERIAL NO:**

Campbell, et al.

09/973,283

October 9, 2001

FILED: TITLE:

Confirmation No: 5786

METHODS AND COMPOSITIONS FOR MODULATING THE IMMUNE SYSTEM OF ANIMALS

INFORMATION DISCLOSURE STATEMENT FILED WITHIN THREE MONTHS OF FILING OR **BEFORE MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))**

Assistant Commissioner for Patents Washington, D.C. 20231

Dear Sir:

This information disclosure statement is being filed within three months of the filing date of the application or date of entry into the national stage of an international application or before the mailing date of a first Office Action on the merits, whichever event occurs last.

Attached are Forms PTO/SB/08A and 08B (formerly Form PTO-1449) listing the relevant art known to the applicant herein. Copies of the listed references are enclosed. The Examiner is requested to consider the references and make them of record.

Applicants submit herewith patents, publications or other information, of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. Legible copies of all items listed in Forms PTO/SB/08A and 08B (formerly Form PTO-1449) accompany this information statement.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the

CERTIFICATE OF MAILING

I hereby certify that the above correspondence was mailed to the Assistant Commissioner for Patents, Washington, D.C. 20231, as First Class mail, postage prepaid, this day of January, 2002.

information cited is, or is considered to be, material to patentability, or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

Respectfully submitted

46idi S. Nebel, Reg. No. 37,719

ZARLEY, McKEE, THOMTE, VOORHEES

& SEASE

801 Grand Avenue, Suite 3200 Des Moines, Iowa 50309-2721 Phone No. (515) 288-3667

Fax No. (515) 288-1338 **CUSTOMER NO: 22885**

Attorneys of Record

- sk -



COPY OF PAPERS ORIGINALLY FILED

Form PTO/SA08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known 09/973,283 **Application Number** Filing Date INFORMATION DISCLOSURE October 9, 2001 First Named Inventor CAMPBELL, Joy M. STATEMENT BY APPLICANT Art Unit 1619 (Use as many sheets as necessary) **Examiner Name** Sheet Attorney Docket Number P04854US1 of

	U.S. PATENT DOCUMENTS					
Examiner Initials *	Cite No.¹ Document Number Number - Kind Code² (if known)		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Wher Relevant Passages or Relevar Figures Appear	
		US- 5,531,988	07/02/1996	Paul, Stephen M.		
		US- 5,585,098	12/17/1996	Coleman, Marilyn A.		
		US- 5,744,134	04/28/1998	Paul, Stephen M.		
		US- 5,762,934	06/09/1998	Williams, et al.		
		US- 5,771,999	06/30/1998	Greenblatt et al.		
		US- 5,817,312	10/06/1998	Gristina et al.		
		US- 5,980,953	11/09/1999	Beck et al.		
		US- 6,086,878	07/11/2000	Adalsteinsson et al.		
		1				
1						

	FOREIGN PATENT DOCUMENTS						
Examiner Initials *	Cite No.'	Foreign Patent Document Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	т•	
		EP 1 044 690	10/18/2000	APC Europe S.A.			
	_						

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in

on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language Translation is attached. Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional)... ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated



COPY OF PAPERS ORIGINALLY FILED

Form PTO/SB/08B (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Complete if Known Substitute for form 1449B/PTO **Application Number** 09/973,283 **Filing Date** October 9, 2001 INFORMATION DISCLOSURE CAMPBELL, Joy M. STATEMENT BY APPLICANT First Named Inventor Group Art Unit 1619 (Use as many sheets as necessary) **Examiner Name** Sheet Attorney Docket Number P04854US1 of

		OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. 1				
		Arthington, et al., "The use of concentrated spray-dried plasma protein in the preweaned/neonatal pig", American Association of Swine Practitioners, pp. 123-124 (1997)			
		Buttgereit, et al., "Bioenergetics of immune functions: fundamental and therapeutic aspects", Immunology Today, 21(4):192-199 (2000)			
		Campbell, et al., "Use of plasma protein in swine feeds examined", Feedstuffs, the Weekly Newspaper for Agribusiness, 70(44) (October 26, 1998)			
		Dwyer, et al., "Manipulating the immune system with immune globulin", The New England Journal of Medicine, 326(2):107-116			
		Eibl M.D., et al, "Prevention of necrotizing enterocolitis in low-birth-weight infants", The New England Journal of Medicine, 319(1): 1-7 (1988)	:		
		Johnson, et al, "Inhibition of growth by pro-inflammatory cytokines: an integrated view", Laboratory of Integrative Biology, Department of Animal Sciences, University of Illinois, 75:1244-1255 (1997)	_		
		Korhonen, et al, "Bactericidal effect of bovine normal and immune serum, colostrum and milk against helicobacter pylori," Journal of Applied Bacteriology, 78: 655-662 (1995)			
		Spurlock, et al, "Regulation of metabolism and growth during immune challenge: an overview of cytokine function", Journal of Animal Science, 75: 1773-1783 (1997)			
		Touchette, et al, "Feeding spray-dried plasma decreases the activation of the hypothalamic-pituitary-adrenal axis", Journal of Animal Science, 78 and 83 #769 p. 181 (2000) Abstract			
		Touchette, et al, "Feeding spray-dried plasma (SDP) alters the immunological response of the weaned pig to a lipopolysaccharide (LPS) challenge", Journal of Animal Science, 77 #173 p. 43 (2000) Abstract			
		Touchette, et al, "Effect of spray –dried plasma and lipopolysaccharide (LPS) on intestinal morphology and the hypothalmic-pituitary-adrenal (HPA) axis of the weaned pig", Journal of Animal Science, 77 #130 p. 56 (2000) Abstract			
		Webel, et al, "Time course of increased plasma cytokines, cortisol, and urea nitrogen in pigs following intraperitoneal injection of lipopolysaccharide", Journal of Animal Science, 75: 1514-1520 (1997)			
		Wolf, et al, "The anti-inflammatory effect of an oral immunoglobulin (IgA-IgG) preparation and its possible relevance for the prevention of necrotizing enterocolitis", Acta Paediatr Suppl 396: 37-40 (1994)			
		Zannelli, et al, "A comparison of the immunological response to lipopolysaccharide (LPS) versus e.coli challenge in the weaned pig", Journal of Amimal Science, 77 #229 p.57 (2000) Abstract			

Examiner	Date	
Signature	Considered	

^{*} EXAMINER: Initial if reference considered whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.